

**Microplate Thermal Shift Assay Apparatus for Ligand
Development and Multi-Variable Protein Chemistry
Optimization**

Abstract

5 The present invention provides an assay apparatus for that includes a
temperature adjusting means for simultaneously heating a plurality of samples,
and a receiving means for receiving spectral emission from the samples while the
samples are being heated. In further aspects of the invention, the receiving means
can be configured to receive fluorescent emission, ultraviolet light, and visible
10 light. The receiving means can be configured to receive spectral emission from
the samples in a variety of ways, e.g., one sample at a time, simultaneously from
more than one sample, or simultaneously from all of the samples. The
temperature adjusting means can be configured with a temperature controller for
changing temperature in accordance with a pre-determined profile.

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